

WHAT IS CLAIMED IS:

1. A signal transmission method for transmitting a signal including main information and various types of additional information added to said main information, comprising the steps of:

detecting the type of additional information to be added;

selecting a parameter associated with an error check code depending upon the detected type of the additional information;

generating an error check code on the basis of said selected parameter; and

inserting the additional information with said error check code into main information and transmitting a resultant signal.

2. A signal transmission method according to Claim 1, wherein said main information is a vertical blanking interval (VBI) signal of a video signal.

3. A signal transmission method according to Claim 1, wherein said additional information added to the main information includes copy management information.

4. A signal transmission method according to Claim 1, wherein in said detection step, the type of additional information is detected on the basis of bit assignment within a predetermined bit range of the additional information.

5. A signal transmission method according to Claim 1, wherein said error check code is a CRCC (Cyclic Redundancy Check Code).

6. A signal transmission method according to Claim 1, wherein when the additional information is of a predetermined type, said selection step selects a parameter which is common among two or more signal transmission methods.

7. A signal transmission method according to Claim 1, wherein said parameter associated with the error check code is an initial value used in the generation of the error check code.

8. A signal transmission method according to Claim 1, wherein said parameter associated with the error check code is a formula for generating the error check code or is a shift register configuration implementing said formula.

9. A signal transmission apparatus for transmitting a signal including main information and various types of additional information added to said main information, comprising:

a detection unit for detecting the type of additional information to be added;

a selection unit for selecting a parameter associated with an error check code depending upon the detected type of the additional information;

a generation unit for generating an error check code on the basis of said selected parameter; and

a transmission unit for inserting the additional information with said error check code into main information and transmitting a resultant signal.

10. A signal transmission apparatus according to Claim 9, wherein said main information is a vertical blanking interval (VBI) signal of a video signal.

11. A signal transmission apparatus according to Claim 9, wherein said additional information added to the main information includes copy management information.

12. A signal transmission apparatus according to Claim

9, wherein said detection unit detects the type of additional information on the basis of bit assignment within a predetermined bit range of the additional information.

13. A signal transmission apparatus according to Claim 9, wherein said error check code is a CRCC (Cyclic Redundancy Check Code).

14. A signal transmission apparatus according to Claim 9, wherein when the additional information is of a predetermined type, said selection unit selects a parameter which is common among two or more signal transmission methods.

15. A signal transmission apparatus according to Claim 9, wherein said parameter associated with the error check code is an initial value used in the generation of the error check code.

16. A signal transmission apparatus according to Claim 9, wherein said parameter associated with the error check code is a formula for generating the error check code or is a shift register configuration implementing said formula.

17. A signal receiving method for receiving main

information including additional information with an error check code added to said main information, comprising the steps of:

receiving a signal;
extracting additional information with an error check code from the received signal;
detecting the type of said additional information;
selecting a parameter associated with the error check code depending upon the detected type of the additional information; and
checking the additional information using the error check code on the basis of said selected parameter.

18. A signal receiving method according to Claim 17, wherein said main information is a vertical blanking interval (VBI) signal of a video signal.

19. A signal receiving method according to Claim 17, wherein said additional information added to the main information includes copy management information.

20. A signal receiving method according to Claim 17, wherein in said detection step, the type of the additional information is detected on the basis of bit assignment within a predetermined bit range of the additional

information.

21. A signal receiving method according to Claim 17, wherein said error check code is a CRCC (Cyclic Redundancy Check Code).

22. A signal receiving method according to Claim 17, wherein when the additional information is of a predetermined type, said selection step selects a parameter which is common among two or more signal transmission methods.

23. A signal receiving method according to Claim 17, wherein said parameter associated with the error check code is an initial value used in generation of the error check code.

24. A signal receiving method according to Claim 17, wherein said parameter associated with the error check code is a formula for generating the error check code or is a shift register configuration implementing said formula.

25. A signal receiving apparatus for receiving main information including additional information with an error check code added to said main information, comprising:

a receiving unit for receiving a signal;

an extraction unit for extracting additional information with an error check code from the received signal;

a detection unit for detecting the type of the additional information;

a selection unit for selecting a parameter associated with the error check code depending upon the detected type of the additional information; and

a checking unit for checking the additional information using the error check code on the basis of said selected parameter.

26. A signal receiving apparatus according to Claim 25, wherein said main information is a vertical blanking interval (VBI) signal of a video signal.

27. A signal receiving apparatus according to Claim 25, wherein said additional information added to the main information includes copy management information.

28. A signal receiving apparatus according to Claim 25, wherein said detection unit detects the type of the additional information on the basis of the bit assignment within a predetermined bit range of the additional

information.

29. A signal receiving apparatus according to Claim 25, wherein said error check code is a CRCC (Cyclic Redundancy Check Code).

30. A signal receiving apparatus according to Claim 25, wherein when the additional information is of a predetermined type, said selection unit selects a parameter which is common among two or more signal transmission methods.

31. A signal receiving apparatus according to Claim 25, wherein said parameter associated with the error check code is an initial value used in generation of the error check code.

32. A signal receiving apparatus according to Claim 25, wherein said parameter associated with the error check code is a formula for generating the error check code or is a shift register configuration implementing said formula.

33. A VBI signal generating apparatus for generating a vertical blanking interval (VBI) signal to be inserted into a video signal, comprising:

a timing detector for detecting the timing of inserting a VBI signal into the video signal;

an error check code generator for generating an error check code for additional information added to the VBI signal; and

a VBI signal generator for generating, in response to a timing detected with said timing detector, a VBI signal including additional information with an error check code,

wherein said error check code generator switches a parameter used in generation of the error check code depending upon the type of the additional information.

34. A video signal transmitting apparatus for transmitting a video signal, comprising:

a timing detector for detecting the timing of inserting a VBI signal into the video signal;

an error check code generator for generating an error check code for additional information added to the VBI signal;

a VBI signal generator for generating a VBI signal including additional information with an error check code;

a replacing unit for, in response to a timing detected by said timing detector, inserting the generated VBI signal into a video signal; and

a signal distributing unit for distributing the video

signal including the VBI signal inserted therein,

wherein said error check code generator switches a parameter used in generation of the error check code depending upon the type of the additional information.

35. A video signal processing apparatus for processing a video signal, comprising:

a timing detector for detecting the timing of inserting a VBI signal into the video signal;

an error check code generator for generating an error check code for additional information added to the VBI signal;

a VBI signal generator for generating a VBI signal including additional information with an error check code;

a replacing unit for, in response to a timing detected by said timing detector, inserting the generated VBI signal into a video signal; and

a processing unit for processing the video signal, wherein said error check code generator switches a parameter used in generation of the error check code depending upon the type of the additional information.

36. A video signal receiving apparatus for receiving a video signal including additional information with an error detection, comprising:

a receiving unit for receiving the video signal;

a timing detector for detecting the timing of
extracting the additional information from the video signal;

an extraction unit for, in response to the timing
detected by said timing detector, extracting the additional
information from the video signal;

an error checking unit for checking the additional
information using the error check code included in the
additional information;

a decoding unit for decoding the additional information
depending upon the result of error checking; and

a display unit for displaying the video signal on a
screen in accordance with the additional information,

wherein said error checking unit switches a parameter
used in the error checking depending upon the type of the
additional information.

37. A decoding apparatus for decoding additional
information with an error check code included in a video
signal, comprising:

a timing detector for detecting the timing of
extracting the additional information from the video signal;

an extraction unit for, in response to the timing
detected by said timing detector, extracting the additional
information from the video signal;

an error checking unit for checking the additional information using the error check code included in the additional information; and

a decoding unit for decoding the additional information depending upon the result of error checking;

wherein said error checking unit switches a parameter used in the error checking depending upon the type of the additional information.

38. A video signal processing apparatus for processing a video signal including additional information with an error check code, comprising:

an input unit for inputting a video signal;

a timing detector for detecting the timing of extracting the additional information from the video signal;

an extraction unit for, in response to the timing detected by said timing detector, extracting the additional information from the video signal;

an error checking unit for checking the additional information using the error check code included in the additional information;

a decoding unit for decoding the additional information depending upon the result of error checking; and

a processing unit for processing the video signal in accordance with the additional information,

wherein said error checking unit switches a parameter used in the error checking depending upon the type of the additional information.

39. A recording medium for recording a video signal, wherein said video signal includes a VBI signal inserted therein, said VBI signal including additional information with an error check code generated by applying a parameter depending upon the type of said additional information.

40. A recording medium according to Claim 39, wherein said additional information includes copy management information.

41. A recording medium according to Claim 39, wherein the type of additional information is determined on the basis of bit assignment within a predetermined bit range of the additional information.

42. A recording medium according to Claim 39, wherein said error check code is a CRCC (Cyclic Redundancy Check Code).

43. A recording medium according to Claim 39, wherein when the additional information is of a predetermined type,

the error check code is generated by applying a parameter which is common among two or more signal transmission methods.

44. A recording medium according to Claim 39, wherein said parameter associated with the error check code is an initial value used in the generation of the error check code.

45. A recording medium according to Claim 39, wherein said parameter associated with the error check code is a formula for generating the error check code or is a shift register configuration implementing said formula.